

SYMBOL LIST FCP FIRE SYSTEM CONTROL UNIT APS ALARM DEVICE POWER SUPPLY FPCP FIRE PUMP CONTROL PANEL ERCR ELEVATOR RECALL CONTROL RELAYS EPSR ELEVATOR POWER SHUTDOWN RELAYS RA-N SITE NETWORK FIRE ALARM ANNUNCIATOR PANEL FAP FIRE ALARM PRINTER UPS UNINTERRUPTIBLE POWER SUPPLY CRT CRT WITH KEYBOARD - OPERATOR'S TERMINAL TC FIRE ALARM TERMINAL CABINET RA REMOTE ANNUNCIATOR ML MAGNETIC DOOR LOCK RELEASE RL REMOTE INDICATOR LAMP SD SMOKE DAMPER EP ELECTRICAL PANEL KITCHEN HOOD FIRE SUPPRESSION SYSTEM MANUAL PULL STATION PHOTOELECTRIC SMOKE DETECTOR (S=SOUNDER SMOKE DETECTOR) HEAT DETECTOR AIR DUCT SMOKE DETECTOR SPEAKER (CEILING MOUNT) MORN WITH STROBE (WALL MOUNT) (SP=SPEAKER WITH STROBE) ☐ HORN (WALL MOUNT)

C 14-2C UNSHIELDED FPLP CABLE - (NAC) D 16-2C UNSHIELDED FPLP CABLE - (DOOR HOLDER POWER)

FIRE SPRINKLER WATERFLOW SWITCH

FIRE SPRINKLER VALVE SUPERVISION SWITCH

STROBE LIGHT (WALL MOUNT)

M ADDRESSABLE MONITOR MODULE

A 16-2C SHIELDED FPLP CABLE - (SLC)

B 16-2C SHIELDED FPLP CABLE - (SPEAKER)

б MAGNETIC DOOR HOLDER

JUNCTION BOX R RELAY MODULE

E 16-2C UNSHIELDED FPLP CABLE - (DUCT DETECTOR POWER) **General Notes**

2. AC input power to the fire alarm system power supplies requires a dedicated single phase, 20 amp, 120 volt circuit

1. All wiring shall be in compliance with Article 760 of the

enforced version of the National Electric Code (NFPA 70), the National Fire Code (NFPA 72) and local building and fire

with ground. Mark these circuits "FIRE ALARM SYSTEM". 3. Traditional "Hard Wired" initiating and indicating circuits are circuited in series-parallel utilizing a resistor for integrity supervision of the circuit's conductors. Wire all circuits as shown. No parallel branching of conductors is permitted.

4. Analog signaling line circuits are parallel and do not require a supervision resistor. In certain applications, signaling line circuits are installed in series-parallel for a higher performance level. Wire all circuits as shown. Contact Mac Systems before deviating from the drawings.

5. Device Placement:

A. Smoke detectors and heat detectors shall be located at least 3' from and air register and at least 4" from the

6. Equipment Elevations:

A. Control Units - 72" AFF to top of the cabinet. B. Annunciators - 60" AFF to the centerline of the cabinet. C. Manual pull stations - 42" - 54" to the operating handle of the device. Use switch height if in these parameters.

D. Audible Visual Devices - 80" AFF or 6" below the ceiling to the centerline of the outlet box whichever is lower.

E. Visual Devices - 80" AFF or 6" below the ceiling to the

centerline of the outlet box whichever is lower. F. Audible Devices - 90" AFF or 6" below the ceiling to the centerline of the outlet box whichever is lower.

7. Outlet box requirements:

A. Manual pull stations - Single gang box or 4" square box

with a single gang plaster ring. B. Smoke detectors - 4" square box with a round plaster ring. Use a $2\frac{1}{8}$ " deep box with an extension ring and no plaster ring if the smoke detector has an integral audible alarm.

C. Heat detectors - 4" square box with a round plaster ring.

D. Monitor modules - 4" square box with a blank cover.

E. Control modules - 4" square box - $2\frac{1}{8}$ " deep. F. Strobe Horns and Strobe lights - Single gang box or 4" square box with a single gang plaster ring. The plaster ring

may be deleted for surface mount installations. G. Speakers and Speaker Strobe - 4" square box - $2\frac{1}{8}$ " deep

with an extension ring. H. Door Holders - Single gang box or 4" square box with a single gang plaster ring.

8. Special Notes: A. Voltage drop and battery calculations will be preformed in the field based upon actual wire lengths using Wheelock version 6 voltage drop calculator.

B. Fire alarm speakers will be connected to the system so that no more than 20 watts of power will be consumed per circuit.

C. Actual device, control unit, and power supply locations will be shown on the record drawings. Cable quantities, types, and locations will also be shown on the record drawings.



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Oklahoma Alarm License # 0363 Department of Veterans Affairs

VA Medical Center 921 NE 13th Street

Oklahoma City, Oklahoma 73104 1/8" = 1'0" DRAWN BY:

John Quinn AHJ: DESIGNER: As-Built 02/16/07 15254 DRAWING DATE: JOB NUMBER: Seventh Floor FLOOR:

DRAWING TYPE: SHEET NUMBER: Fire Detection and Alarm System FA1.31

John Quinn